CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/AP/W.No.12/STEEL/2016-17 14.11.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. A. Puttaraju,** #B, 48/5, Pipe line, B Cross, Bahubali Nagara, Jalahalli Village, Bangalore – 13.
Name of the Work	:	Improvements to roads and drains at Nisarga Layout to Abbigere in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/SSD/PR/42/2016-17 Dated: 03.11.2016
Date of Test	:	14.11.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	16	1.58	520	563	13.65	O.K	O.K

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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AE-12

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ಬಾಪೂಜಿನಗರ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

Civil-tech Consultants & Engineers

#23/14, 7th Cross 3rd Stage 4th Block, Shakthi Ganapathinagar, Basaveshwaranagar, Bangalore-560 079.

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T-2377

Job No.: CTCE/BBMP/AP/W.No.12/CSR 11/184g/CUBE/2016-17 14.12.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. A. Puttaraju,** #B, 48/5, Pipe line, B Cross, Bahubali Nagara, Jalahalli Village, Bangalore – 13.
* Name of the work	: Improvements to roads and drains at Nisarga Layout in Abbigere in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: AEE/SSD/PR/42/2016-17 Dated: 03.11.2016
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day
Sample Received on	: 14.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.11.2016	14.12.2016	8.263	358.4	15.93
2	16.11.2016	14.12.2016	8.147	363.2	16.14
3	16.11.2016	14.12.2016	8.362	389.6	17.32

* Information is furnished by the Customer/Representative

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VIDYARANI P.K.
Technical Manager

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ದಾಸರಹಳ್ಳಿನಗರ, ಬೆಂಗಳೂರು

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E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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T-2377

Job No: CTCL/BBMP/AP/W.No.12/CSR-11/184g/CUBE/2016-17 19.12.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. A. Puttaraju,** #B, 48/5, Pipe line, B Cross, Bahubali Nagara, Jalahalli Village, Bangalore – 13.
* Name of the work	: Improvements to roads and drains at Nisarga Layout in Abbigere in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: AEE/SSD/PR/42/2016-17 Dated: 03.11.2016
* Sample ID	: Culvert Deck Slab Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 19.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.11.2016	19.12.2016	8.258	494.5	21.98
2	21.11.2016	19.12.2016	8.367	511.9	22.75
3	21.11.2016	19.12.2016	8.412	525.3	23.35

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A-11-12
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Job No.: CTCE/BBMP/AP/W No.12/WBM-II/2016-17 Date: 07.12.2016

REPORT

Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. A. Puttaraju,** //B, 48/5, Pipe line, B Cross, Babubali Nagara, Jalahalli Village, Bangalore – 13.
Name of the Work	:	Improvements to roads and drains at Nisarga Layout in Abbigere in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/SSD/PR/42/2016-17 Dated: 03.11.2016
Type of Mix	:	Water Bound Macadam (Grade-II Metal)
Date of Sampling	:	05.12.2016
Date of Testing	:	07.12.2016

1) SEIVE ANALYSIS :

IS Sieve designation Size, mm	Percentage Passing for Graded Aggregate of Nominal size	Percentage by Weight Passing as per MORTH table 400-7
90mm	100.00	100.00
63mm	96.60	90-100
53mm	31.35	25-75
45mm	10.40	0-15
22.4mm	3.85	0-5

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AE-12

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ಪೈಪ್ ಲೈನ್ ಬಿ ಕ್ರಾಸ್, ಬಾಬುಬಳ್ಳಿ ನಗರ
ಜಾಲಹಳ್ಳಿ ಗ್ರಾಮ, ಬೆಂಗಳೂರು-13.